Safety Data Sheet

According to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012 and the Hazardous Products Regulations (HPR) WHMIS 2015

Issue date: 1/15/2019 Revision date: 1/03/2022 Version: 610B-2022a

SECTION 1: Identification

1.1. Identification

Product form : Mixture

Product name : WEST SYSTEM® SIX10® Part B Hardener

Product code : 610B

Chemical Family : Rubber modified-polyamine mixture.

1.2. Recommended use and restrictions on use

Recommended use : Curing agent for epoxy resins

1.3. Supplier

Supplier Distributor

Gougeon Brothers, Inc 100 Patterson Ave. Bay City, MI 48706 - U.S.A. T 888-377-6738 or 989-684-7286

www.prosetepoxy.com

1.4. Emergency telephone number

Emergency number : CHEMTREC 1 (800) 424-9300

CHEMTREC International +1 (703) 527-3887 24 hr

SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture

GHS classification

Skin Corr. 1B Eye Dam. 1 Skin Sens. 1 Muta. 2 STOT RE 2 Aquatic Acute 3 Aquatic Chronic 3

2.2. GHS Label elements, including precautionary statements

GHS labelling

Hazard pictograms (GHS) :







Signal word (GHS) : Dange

Hazard statements (GHS) : Causes severe skin burns and eye damage.

May cause an allergic skin reaction. Suspected of causing genetic defects.

May cause damage to organs through prolonged or repeated exposure.

Harmful to aquatic life with long lasting effects.

Precautionary statements (GHS) : Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood.

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Do not breathe dust/fume/gas/mist/vapours/spray.

Wash hands, forearms and face thoroughly after handling.

Contaminated work clothing must not be allowed out of the workplace.

Avoid release to the environment.

Wear protective gloves/protective clothing/eye protection/face protection.

If exposed or concerned: Get medical advice/attention.

If swallowed: rinse mouth. Do NOT induce vomiting.

If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

Wash contaminated clothing before reuse.

If skin irritation or rash occurs: Get medical advice/attention.

If inhaled: Remove person to fresh air and keep comfortable for breathing.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Immediately call a poison center or doctor.

Get medical advice/attention if you feel unwell.

Store locked up.

Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

2.3. Other hazards which do not result in classification

No additional information available

2.4. Unknown acute toxicity

Not applicable

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Chemical name / Synonyms	Product identifier	%
2-Propenenitrile, polymer with 1,3-	2-Propenenitrile, polymer with 1,3-butadiene, 1-cyano-1-	CAS-No.: 68683-29-4	10 – 30
butadiene, 1-cyano-1-methyl-4-oxo-4-[[2-	methyl-4-oxo-4-[[2-(1-piperazinyl)ethyl]amino]butyl-		
(1-piperazinyl)ethyl]amino]butyl-	terminated		
terminated	2-Propenenitrile, polymer with 1,3-butadiene, 1-cyano-1-		
	methyl-4-oxo-4-[[2-(1-piperazinyl)ethyl]amino]butyl terminated		
Poly[oxy(methyl-1,2-ethanediyl)], .alpha	Poly[oxy(methyl-1,2-ethanediyl)], .alpha(2-	CAS-No.: 9046-10-0	10 – 30
(2-aminomethylethyl)omega(2-	aminomethylethyl)omega(2-aminomethylethoxy)-		
aminomethylethoxy)-	Propylene glycol diamine, 2-amino-, diether with Propylene /		
	Polypropylene glycol bis(2-aminopropyl) ether / Jeffamine D-		
	230 / Diaminopolypropylene glycol / Polypropylene glycol		
	bis(aminopropyl) ether / Poly(oxy(methyl-1,2-ethanediyl)),		
	.alpha(2-aminomethylethyl)omega(2-		
	aminomethylethoxy)- / Reaction products of propane-1,2-diol,		
	propoxylated by amination of the terminal hydroxyl groups /		
	O,O'-Bis(2-aminopropyl)polypropylene glycol /		
	Poly(oxypropylene)diamine / .alpha[2-(Aminomethyl)ethyl)]-		
	.omega(2-aminomethylethoxy)poly[oxy(methylethylene)] /		
	Poly(propyleneglycol)diamine / Reaction products of di-, tri-		
	and tetra-propoxylated propane-1,2-diol with ammonia / PPG-		
	70 BIS-(2-AMINOPROPYL) ETHER / Bis(2-aminopropyl)		
	ether of polypropyleneglycol		
Benzyl alcohol	Benzyl alcohol	CAS-No.: 100-51-6	10 – 30

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	Benzenecarbinol / Benzenemethanol / Methanol, phenyl- /		
	Phenylmethanol / Phenylmethyl alcohol / BENZYL ALCOHOL		
	/ .alphaHydroxytoluene / Benzylalcohol		
Non-hazardous	Non-hazardous	CAS-No.: Trade Secret	7 – 13
Formaldehyde, polymer with N,N'-bis(2-	Formaldehyde, polymer with N,N'-bis(2-aminoethyl)-1,2-	CAS-No.: 32610-77-8	7 – 13
aminoethyl)-1,2-ethanediamine and	ethanediamine and phenol		
phenol	Formaldehyde, oligomeric reaction products with phenol and		
	triethylenetetramine / Formaldehyde, polymer with N1,N2-		
	bis(2-aminoethyl)-1,2-ethanediamine and phenol / Cross-		
	linked phenol-formaldehyde activated with		
	triethylenetetramine / Phenol-formaldehyde, cross-linked,		
	triethylenetetramine activated / Formaldehyde, polymer with		
	N,N'-bis(2-aminoethyl)1,2-ethanediamine and phenol /		
	Formaldehyde-phenol-triethylenetetraamine copolymer		
Triethylenetetramine	Triethylenetetramine	CAS-No.: 112-24-3	7 – 13
	Araldite hardener HY 951 / N,N'-Bis(2-aminoethyl)-1,2-		
	ethanediamine / N,N'-Bis(2-aminoethyl)ethylenediamine /		
	DEH 24 / Ethane-1,2-diamine, N,N'-bis(2-aminoethyl)- / 1,2-		
	Ethanediamine, N,N'-bis(2-aminoethyl)- / Ethylenediamine,		
	N,N'-bis(2-aminoethyl)- / HY 951 / Trientine / 1,2-		
	Ethanediamine, N1,N2-bis(2-aminoethyl)- / TETA / 3,6-		
	Diazaoctane-1,8-diamine / 3,6-Diazaoctanethylenediamine /		
	3,6-Diazaoctane-1,8-diyldiamine		
Silica, amorphous, fumed, crystalline-	Silica, amorphous, fumed, crystalline-free	CAS-No.: 112945-52-5	5 – 10
free	Colloidal silica / Silica, amorphous, fumed / Pyrogenic		
	colloidal silica / Synthetic amorphous silica / Pyrogenic,		
	fumed, amorphous silica / Silica, amorphous, crystalline-free /		
	Aquafil / Amorphous silicon dioxide / Silica, amorphous,		
	fumed, crystalline free / Fumed silica / Amorphous silica /		
	Silica, amorphous / Fumed, crystalline-free amorphous silica		
Phenol, 2,4,6-	Phenol, 2,4,6-tris[(dimethylamino)methyl]-, reaction products	CAS-No.: 1101788-77-5	1 – 5
tris[(dimethylamino)methyl]-, reaction	with triethylenetetramine		
products with triethylenetetramine			
Phenol	Phenol	CAS-No.: 108-95-2	1 – 5
	Hydroxybenzene / Monohydroxybenzene / Phenic acid /		
	Benzene, hydroxy- / Carbolic acid		
1,3-Benzenedimethanamine	1,3-Benzenedimethanamine	CAS-No.: 1477-55-0	1 – 5
	Benzene, 1,3-di(aminomethyl)- / 1,3-		
	Bis(aminomethyl)benzene / m-Phenylenebis(methylamine) /		
	m-Xylenealpha.,.alpha.'-diamine / m-Xylylenediamine /		
	Bis(aminomethyl)benzene, 1,3- / 3-		
	(Aminomethyl)benzylamine / Xylylenediamine, m- / MXDA /		
	.alpha.,.alpha.'-Diamino-1,3-dimethylbenzene / 1,3-		
	Xylenediamine / m-Xylenediamine		
Diethylenetriamine-bisphenol A-	Diethylenetriamine-bisphenol A-epichlorohydrin polymer	CAS-No.: 31326-29-1	1 – 5
epichlorohydrin polymer	Phenol, 4,4'-(1-methylethylidene)bis-, polymer with N-(2-		
	aminoethyl)-1,2-ethanediamine and (chloromethyl)oxirane /		
	4,4'-Isopropylidenediphenol, oligomeric reaction products with		
	1-chloro-2,3-epoxypropane, reaction products with		
	diethylenetriamine / Phenol, 4,4'-(1-methylethylidene)bis-,		
	polymer with N1-(2-aminoethyl)-1,2-ethanediamine and 2-		
	(chloromethyl)oxirane / Phenol, 4,4'-(1-methylethylidene)bis-,		
			i .
1	polymer with N-(2-aminoethyl)-1,2-ethanediamine		
Diethylenetriamine	polymer with N-(2-aminoethyl)-1,2-ethanediamine and(chloromethyl)oxirane Diethylenetriamine	CAS-No.: 111-40-0	1 – 5

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Bis(2-aminoethyl)amine / 2,2'-Diaminodiethylamine /	
Diethylamine, 2,2'-diamino- / Ethane-1,2-diamine, N-(2-	
aminoethyl)- / 1,2-Ethanediamine, N-(2-aminoethyl)- /	
Ethylenediamine, N-(2-aminoethyl)- / 2,2'-	
Iminobis(ethanamine) / 2,2'-Iminodi(ethylamine) / 1,4,7-	
Triazaheptane / N-(2-Aminoethyl)-1,2-ethanediamine / 1,2-	
Ethanediamine, N1-(2-aminoethyl)- / 3-Azapentane-1,5-	
diamine / DETA / N-(2-Aminoethyl)ethane-1,2-diamine / 2,2'-	
Iminobis(ethylamine) / 2,2'-Iminodiethylamine	

Comments

SECTION 4: First-aid measures

4.1. Description of first aid measures

First-aid measures after inhalation : If inhaled and if breathing is difficult, remove victim to fresh air and keep at rest in a position

comfortable for breathing. Immediately call a POISON CENTER/doctor.

First-aid measures after skin contact : IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with

water/shower. Wash contaminated clothing before reuse. Immediately call a POISON

CENTER/doctor.

First-aid measures after eye contact : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present

and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.

First-aid measures after ingestion : If swallowed, do NOT induce vomiting unless directed to do so by medical personnel. Never give

anything by mouth to an unconscious person. Immediately call a POISON CENTER/doctor.

4.2. Most important symptoms and effects (acute and delayed)

Symptoms/effects after inhalation : May cause respiratory tract irritation.

Symptoms/effects after skin contact : Causes severe burns. Symptoms may include redness, pain, blisters. May cause an allergic skin

reaction

Symptoms/effects after eye contact : Causes serious eye damage. Symptoms may include discomfort or pain, excess blinking and

tear production, with marked redness and swelling of the conjunctiva.

Symptoms/effects after ingestion : May be harmful if swallowed. May cause burns or irritation of the linings of the mouth, throat, and

gastrointestinal tract. May cause stomach distress, nausea or vomiting.

Chronic symptoms : Suspected of causing genetic defects. May cause damage to organs through prolonged or

repeated exposure.

4.3. Immediate medical attention and special treatment, if necessary

Symptoms may not appear immediately. In case of accident or if you feel unwell, seek medical advice immediately (show the label or SDS where possible).

SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media : Foam. Carbon dioxide. Dry chemical. Unsuitable extinguishing media : Do not use a heavy water stream.

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[:] The exact chemical identity and/or exact percentage (concentration) of each ingredient may be held as confidential business information (CBI). Any ingredient not disclosed in this section may have been determined not to be hazardous to health or the environment, or it may be present at a level below its disclosure threshold. Refer to Section 15 for additional information regarding this CBI claim.

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5.2. Specific hazards arising from the chemical

Fire hazard

: Products of combustion may include, and are not limited to: oxides of carbon. Oxides of nitrogen. Amines. Ammonia. Nitric acid. Aldehydes. Nitrosamines. When mixed with sawdust, wood chips, or other cellulosic material, spontaneous combustion can occur under certain conditions. Heat is generated as the air oxidizes the amine. If the heat is not dissipated quickly enough, it can ignite the sawdust.

5.3. Special protective equipment and precautions for fire-fighters

Protection during firefighting

: Keep upwind of fire. Wear full fire fighting turn-out gear (full Bunker gear) and respiratory protection (SCBA). Use water spray to keep fire-exposed containers cool.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures

: Use personal protection recommended in Section 8. Isolate the hazard area and deny entry to unnecessary and unprotected personnel.

6.1.1. For non-emergency personnel

No additional information available

6.1.2. For emergency responders

No additional information available

6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if product enters sewers or public waters. Collect spillage.

6.3. Methods and material for containment and cleaning up

For containment

: Contain and/or absorb spill with inert material (e.g. sand, vermiculite), then place in a suitable container. Do not flush to sewer or allow to enter waterways. Use appropriate Personal Protective Equipment (PPE).

Methods for cleaning up

: Sweep or shovel spills into appropriate container for disposal. Provide ventilation.

6.4. Reference to other sections

See section 8 for further information on protective clothing and equipment and section 13 for advice on waste disposal.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling

: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not get in eyes, on skin, or on clothing. Do not breathe dust, fume, gas, mist, vapours, spray. Do not swallow. Handle and open container with care. Do not eat, drink or smoke when using this product. Use personal protective equipment as required. When mixed with epoxy resin this product causes an exothermic reaction, which in large masses, can produce enough heat to damage or ignite surrounding materials and emit fumes and vapors that vary widely in composition and toxicity. Ensure adequate ventilation.

Hygiene measures

: Wash contaminated clothing before reuse. Wash hands before eating, drinking, or smoking.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions

: Keep out of the reach of children. Keep container tightly closed. Store in dry, cool, well-ventilated area. Protect from sunlight. Storage temperature: 40°F (4°C) - 90°F (32°C). Store locked up.

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SECTION 8: Exposure controls/personal protection

8.1. Control parameters

WEST SYSTEM® SIX10® Part B Hardener
2-Propenenitrile, polymer with 1,3-butadiene, 1-cyano-1-methyl-4-oxo-4-[[2-(1-piperazinyl)ethyl]amino]butyl-terminated (6868-29-4) No additional information available Poly[oxy(methyl-1,2-ethanediyl)], .alpha(2-aminomethylethyl)omega(2-aminomethylethoxy)- (9046-10-0) No additional information available Benzyl alcohol (100-51-6) TWA - Occupational Exposure Limits TWA (WEEL) Non-hazardous (Trade Secret) No additional information available Formaldehyde, polymer with N,N'-bis(2-aminoethyl)-1,2-ethanediamine and phenol (32610-77-8) No additional information available Formaldehyde, polymer with N,N'-bis(2-aminoethyl)-1,2-ethanediamine and phenol (32610-77-8) No additional information available Triethylenetetramine (112-24-3) AlHA - Occupational Exposure Limits AlHA WEEL Phenol, 2,4,6-tris[(dimethylamino)methyl]-, reaction products with triethylenetetramine (1101788-77-5) AlHA - Occupational Exposure Limits AlHA WEEL ((Reference Triethylenetetramine, CAS# 112-24-3)) Ippm : 6 mg/m3: Absorbed via skin Silica, amorphous, fumed, crystalline-free (112945-52-5) USA - ACGIH - Occupational Exposure Limits OSHA PEL TWA [1] 6 mg/m3 (Respirable) USA - OSHA - Occupational Exposure Limits OSHA PEL TWA [1] 6 mg/m3 (Respirable fraction) Phenol (108-95-2) USA - ACGIH - Occupational Exposure Limits OSHO PEL TWA [19 mg/m3
(68683-29-4) No additional information available Poly[oxy(methyl-1,2-ethanediyl)], .alpha(2-aminomethylethyl)omega(2-aminomethylethoxy)- (9046-10-0) No additional information available Benzyl alcohol (100-51-6) TWA - Occupational Exposure Limits TWA (WEEL) 10 ppm Non-hazardous (Trade Secret) No additional information available Formaldehyde, polymer with N,N'-bis(2-aminoethyl)-1,2-ethanediamine and phenol (32610-77-8) No additional information available Triethylenetetramine (112-24-3) AlHA - Occupational Exposure Limits 1 ppm ; 6 mg/ m3; Absorbed via skin Phenol, 2,4,6-tris[(dimethylamino)methyl]-, reaction products with triethylenetetramine (1101788-77-5) AlHA - Occupational Exposure Limits 1 ppm ; 6 mg/ m3; Absorbed via skin Silica, amorphous, fumed, crystalline-free (112945-52-5) 1 ppm ; 6 mg/ m3; Absorbed via skin Silica, amorphous, fumed, crystalline-free (112945-52-5) USA - ACGIH - Occupational Exposure Limits 10 mg/m³ (Inhalable) 3 mg/m³ (Respirable) USA - OSHA - Occupational Exposure Limits 6 mg/m³ (Amorphous silica) 15 mg/m³ (Total dust) 5 mg/m³ (Total dust) 5 mg/m³ (Respirable fraction) Phenol (108-95-2) USA - ACGIH - Occupational Exposure Limits ACGIH OEL TWA 19 mg/m³ 19 mg/m³
Poly[oxy(methyl-1,2-ethanediyl)], .alpha{2-aminomethylethyl}omega{2-aminomethylethoxy}- (9046-10-0) No additional information available Benzyl alcohol (100-51-6) TWA - Occupational Exposure Limits TWA (WEEL) Non-hazardous (Trade Secret) No additional information available Formaldehyde, polymer with N,N'-bis(2-aminoethyl)-1,2-ethanediamine and phenol (32610-77-8) No additional information available Triethylenetetramine (112-24-3) AlHA - Occupational Exposure Limits AlHA WEEL 1ppm : 6 mg/ m3; Absorbed via skin Phenol, 2,4,6-tris[(dimethylamino)methyl]-, reaction products with triethylenetetramine (1101788-77-5) AlHA - Occupational Exposure Limits AlHA WEEL ((Reference Triethylenetetramine, CAS# 112-24-3)) Silica, amorphous, fumed, crystalline-free (112945-52-5) USA - ACGIH - Occupational Exposure Limits ACGIH OEL TWA 10 mg/m³ (Inhalable) 3 mg/m³ (Respirable) USA - OSHA - Occupational Exposure Limits OSHA PEL TWA [1] 6 mg/m³ (Amorphous silica) 15 mg/m³ (Respirable fraction) Phenol (108-95-2) USA - ACGIH - Occupational Exposure Limits ACGIH OEL TWA 19 mg/m³
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AIHA WEEL 1ppm ; 6 mg/ m3; Absorbed via skin Phenol, 2,4,6-tris[(dimethylamino)methyl]-, reaction products with triethylenetetramine (1101788-77-5) AIHA - Occupational Exposure Limits AIHA WEEL ((Reference Triethylenetetramine, CAS# 112-24-3)) 1ppm ; 6 mg/ m3; Absorbed via skin Silica, amorphous, fumed, crystalline-free (112945-52-5) USA - ACGIH - Occupational Exposure Limits ACGIH OEL TWA
Phenol, 2,4,6-tris[(dimethylamino)methyl]-, reaction products with triethylenetetramine (1101788-77-5) AIHA - Occupational Exposure Limits AIHA WEEL ((Reference Triethylenetetramine, CAS# 112-24-3)) Ippm; 6 mg/ m3; Absorbed via skin Silica, amorphous, fumed, crystalline-free (112945-52-5) USA - ACGIH - Occupational Exposure Limits ACGIH OEL TWA I0 mg/m³ (Inhalable) 3 mg/m³ (Respirable) USA - OSHA - Occupational Exposure Limits OSHA PEL TWA [1] 6 mg/m³ (Amorphous silica) 15 mg/m³ (Total dust) 5 mg/m³ (Respirable fraction) Phenol (108-95-2) USA - ACGIH - Occupational Exposure Limits ACGIH OEL TWA 19 mg/m³
AlHA - Occupational Exposure Limits AlHA WEEL ((Reference Triethylenetetramine, CAS# 112-24-3)) 1ppm; 6 mg/ m3; Absorbed via skin Silica, amorphous, fumed, crystalline-free (112945-52-5) USA - ACGIH - Occupational Exposure Limits ACGIH OEL TWA 10 mg/m³ (Inhalable) 3 mg/m³ (Respirable) USA - OSHA - Occupational Exposure Limits OSHA PEL TWA [1] 6 mg/m³ (Amorphous silica) 15 mg/m³ (Total dust) 5 mg/m³ (Respirable fraction) Phenol (108-95-2) USA - ACGIH - Occupational Exposure Limits ACGIH OEL TWA 19 mg/m³
AlHA WEEL ((Reference Triethylenetetramine, CAS# 112-24-3)) Silica, amorphous, fumed, crystalline-free (112945-52-5) USA - ACGIH - Occupational Exposure Limits ACGIH OEL TWA 10 mg/m³ (Inhalable) 3 mg/m³ (Respirable) USA - OSHA - Occupational Exposure Limits OSHA PEL TWA [1] 6 mg/m³ (Amorphous silica) 15 mg/m³ (Total dust) 5 mg/m³ (Respirable fraction) Phenol (108-95-2) USA - ACGIH - Occupational Exposure Limits ACGIH OEL TWA 19 mg/m³
Silica, amorphous, fumed, crystalline-free (112945-52-5) USA - ACGIH - Occupational Exposure Limits ACGIH OEL TWA 10 mg/m³ (Inhalable) 3 mg/m³ (Respirable) USA - OSHA - Occupational Exposure Limits OSHA PEL TWA [1] 6 mg/m³ (Amorphous silica) 15 mg/m³ (Total dust) 5 mg/m³ (Respirable fraction) Phenol (108-95-2) USA - ACGIH - Occupational Exposure Limits ACGIH OEL TWA 19 mg/m³
USA - ACGIH - Occupational Exposure Limits ACGIH OEL TWA 10 mg/m³ (Inhalable) 3 mg/m³ (Respirable) USA - OSHA - Occupational Exposure Limits OSHA PEL TWA [1] 6 mg/m³ (Amorphous silica) 15 mg/m³ (Total dust) 5 mg/m³ (Respirable fraction) Phenol (108-95-2) USA - ACGIH - Occupational Exposure Limits ACGIH OEL TWA 19 mg/m³
ACGIH OEL TWA 10 mg/m³ (Inhalable) 3 mg/m³ (Respirable) USA - OSHA - Occupational Exposure Limits OSHA PEL TWA [1] 6 mg/m³ (Amorphous silica) 15 mg/m³ (Total dust) 5 mg/m³ (Respirable fraction) Phenol (108-95-2) USA - ACGIH - Occupational Exposure Limits ACGIH OEL TWA 19 mg/m³
USA - OSHA - Occupational Exposure Limits OSHA PEL TWA [1] 6 mg/m³ (Amorphous silica) 15 mg/m³ (Total dust) 5 mg/m³ (Respirable fraction) Phenol (108-95-2) USA - ACGIH - Occupational Exposure Limits ACGIH OEL TWA 19 mg/m³
USA - OSHA - Occupational Exposure Limits OSHA PEL TWA [1] 6 mg/m³ (Amorphous silica) 15 mg/m³ (Total dust) 5 mg/m³ (Respirable fraction) Phenol (108-95-2) USA - ACGIH - Occupational Exposure Limits ACGIH OEL TWA 19 mg/m³
OSHA PEL TWA [1] 6 mg/m³ (Amorphous silica) 15 mg/m³ (Total dust) 5 mg/m³ (Respirable fraction) Phenol (108-95-2) USA - ACGIH - Occupational Exposure Limits ACGIH OEL TWA 19 mg/m³
15 mg/m³ (Total dust) 5 mg/m³ (Respirable fraction) Phenol (108-95-2) USA - ACGIH - Occupational Exposure Limits ACGIH OEL TWA 19 mg/m³
Phenol (108-95-2) USA - ACGIH - Occupational Exposure Limits ACGIH OEL TWA 19 mg/m³
USA - ACGIH - Occupational Exposure Limits ACGIH OEL TWA 19 mg/m³
ACGIH OEL TWA 19 mg/m³
ACGIH OFL TWA [ppm] 5 ppm
ACGIH chemical category Not Classifiable as a Human Carcinogen, Skin - potential significant contribution to overall
exposure by the cutaneous route
USA - ACGIH - Biological Exposure Indices
BEI 250 mg/g creatinine Parameter: Phenol with hydrolysis - Medium: urine - Sampling time: e
of shift (background, nonspecific) USA - OSHA - Occupational Exposure Limits
OSHA PEL TWA [1] 19 mg/m³
OSHA PEL TWA [1] 19 mig/m² OSHA PEL TWA [2] 5 ppm
Limit value category (OSHA) prevent or reduce skin absorption
USA - IDLH - Occupational Exposure Limits
IDLH [ppm] 250 ppm
USA - NIOSH - Occupational Exposure Limits
NIOSH REL TWA 19 mg/m³
NIOSH REL TWA [ppm] 5 ppm
NIOSH REL C 60 mg/m³
NIOSH REL C [ppm] 15.6 ppm
US-NIOSH chemical category SK: SYS(FATAL)-DIR(COR) Apr 2011

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Safety Data Sheet

According to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012 and the Hazardous Products Regulations (HPR) WHMIS 2015

1,3-Benzenedimethanamine (1477-55-0)		
USA - ACGIH - Occupational Exposure Limits		
ACGIH OEL C [ppm]	0.018 ppm	
ACGIH chemical category	Skin - potential significant contribution to overall exposure by the cutaneous route	
USA - NIOSH - Occupational Exposure Limits		
NIOSH REL C	0.1 mg/m³	
US-NIOSH chemical category	Potential for dermal absorption	
Diethylenetriamine-bisphenol A-epichlorohydrin polymer (31326-29-1)		
USA - ACGIH - Occupational Exposure Limits		
ACGIH OEL TWA	Refer to Diethylenetriamine	
Diethylenetriamine (111-40-0)		
USA - ACGIH - Occupational Exposure Limits	3	
ACGIH OEL TWA [ppm]	1 ppm	
ACGIH chemical category	Skin - potential significant contribution to overall exposure by the cutaneous route	
USA - NIOSH - Occupational Exposure Limits		
NIOSH REL TWA	4 mg/m³	
NIOSH REL TWA [ppm]	1 ppm	
US-NIOSH chemical category	SK: SYS-DIR(COR)-SEN Oct 2020	

8.2. Appropriate engineering controls

Appropriate engineering controls : Use ventilation adequate to keep exposures (airborne levels of dust, fume, vapor, etc.) below

recommended exposure limits.

Environmental exposure controls : Maintain levels below Community environmental protection thresholds.

8.3. Individual protection measures/Personal protective equipment

Hand protection:

Wear suitable gloves.

Eye protection:

Wear approved eye protection (properly fitted dust- or splash-proof chemical safety goggles) and face protection (face shield).

Skin and body protection:

Wear suitable protective clothing

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Other information:

Do not eat, smoke or drink where material is handled, processed or stored. Wash hands carefully before eating or smoking. Handle according to established industrial hygiene and safety practices.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Liquid
Appearance : Gel
Colour : Off-white
Odour : Amine-like
Odour threshold : No data available

pH : 10.59

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Safety Data Sheet

According to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012 and the Hazardous Products Regulations (HPR) WHMIS 2015

Melting point: No data availableFreezing point: No data availableBoiling point: No data available

Flash point : > 300 °F (149°C) estimated based similar product.

Relative evaporation rate (butylacetate=1) : No data available Flammability (solid, gas) : Non flammable. Vapour pressure : No data available Relative vapour density at 20 °C : No data available

Relative density : 1.04

Solubility : No data available Partition coefficient n-octanol/water : No data available Auto-ignition temperature : No data available Decomposition temperature : No data available : No data available Viscosity, kinematic Viscosity, dynamic No data available **Explosive limits** No data available Explosive properties No data available Oxidising properties No data available

9.2. Other information

VOC content : 11.8 g/l (0.10 lbs/gal)
Bulk density : 8.67 lb/gal (1.04 kg/L)

SECTION 10: Stability and reactivity

10.1. Reactivity

No dangerous reaction known under conditions of normal use.

10.2. Chemical stability

Stable under normal storage conditions.

10.3. Possibility of hazardous reactions

No dangerous reaction known under conditions of normal use. A mass of more than one pound of product plus an epoxy resin will cause irreversible polymerization with significant heat buildup and pressure.

10.4. Conditions to avoid

Heat. Ignition sources. Incompatible materials.

10.5. Incompatible materials

Acids. oxidizing materials. Halogenated compounds. External heating or self-heating could result in rapid temperature increase and pressure build up. If such a condition were to occur in a drum, the drum could expand and rupture violently.

10.6. Hazardous decomposition products

May include, and are not limited to: oxides of carbon. Oxides of nitrogen. Amines. Ammonia. Nitric acid. Aldehydes. Nitrosamines.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral) : Not classified.
Acute toxicity (dermal) : Not classified.
Acute toxicity (inhalation) : Not classified.

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Safety Data Sheet

According to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012 and the Hazardous Products Regulations (HPR) WHMIS 2015

Ingredient Name	CAS#	LD ₅₀ Oral	LD ₅₀ Dermal	LC ₅₀ Inhalation
2-Propenenitrile, polymer with 1,3-butadiene, 1-cyano-1-methyl-4-oxo-4-[[2-(1-		>15,400 mg/kg	>3000 mg/kg	No data available
piperazinyl)ethyl]amino]butyl-terminated	68683-29-4			
Poly[oxy(methyl-1,2-ethanediyl)], .alpha(2-aminomethylethyl)omega(2-		2855 mg/kg	2980 mg/kg	>0.74 mg/L 8h vapor
aminomethylethoxy)-	9046-10-0			
Benzyl alcohol				>4.18 mg/l
	100-51-6	1620 mg/kg	No data available	4h aerosol
Non-hazardous	NA	No data available	No data available	No data available
Formaldehyde, polymer with N,N'-bis(2-	32610-77-8			
aminoethyl)-1,2-ethanediamine and phenol		No data	No data	No data
Triethylenetetramine	112-24-3	1716 mg/kg	1465 mg/kg	No data
Phenol, 2,4,6-tris[(dimethylamino)methyl]-,	1101788-77-	1716 mg/kg (reference	1465 mg/kg	No data
reaction products with triethylenetetramine	5	Triethylenetetramine)		
Silica, amorphous, fumed, crystalline-free	112945-52-5	>5000 mg/kg	>2000 mg/kg	No data
Phenol	108-95-2	317 mg/kg	630 mg/kg (solid)	0.9 mg/l; 8h
1,3-Benzenedimethanamine				1.34 mg/l 4h mist / aerosol
	1477-55-0	980 mg/kg	2000 mg/kg	
Diethylenetriamine-bisphenol A-	31326-29-1	1620 mg/kg	No data available	No data available
epichlorohydrin polymer				
Diethylenetriamine				**0.07-0.3 mg/l 4h mist/aerosol
	111-40-0	1080 mg/kg	1090 mg/kg	

^{**}LC50 data has been generated for this substance by subjecting rats to an airborne aerosol/mist atmosphere in a test chamber. It has not been determined that this data directly correlates to an inherent hazard of this product as would be expected under normal, foreseeable or anticipated conditions of use.

Skin corrosion/irritation : Causes severe skin burns.

pH: 10.59

Serious eye damage/irritation : Causes serious eye damage.

pH: 10.59

Respiratory or skin sensitisation : May cause an allergic skin reaction.

Germ cell mutagenicity : Suspected of causing genetic defects.

Carcinogenicity : Not classified.

Silica, amorphous, fumed, crystalline-free (112945-52-5)		
IARC group 3 - Not classifiable		
Phenol (108-95-2)		
IARC group	3 - Not classifiable	

Reproductive toxicity : Not classified. STOT-single exposure : Not classified.

Silica, amorphous, fumed, crystalline-free (112945-52-5)		
STOT-single exposure May cause respiratory irritation.		
Phenol (108-95-2)		
STOT-single exposure Causes damage to organs.		
Diethylenetriamine-bisphenol A-epichlorohydrin polymer (31326-29-1)		
OT-single exposure May cause respiratory irritation.		

: May cause damage to organs through prolonged or repeated exposure.

STOT-repeated exposure

Benzyl alcohol (100-51-6)	
NOAEL (oral, rat, 90 days) 400 mg/kg bodyweight Animal: rat, Guideline: other:	
Phenol (108-95-2)	
LOAEL (dermal, rat/rabbit, 90 days)	260 mg/kg bodyweight Animal: rabbit
NOAEL (dermal, rat/rabbit, 90 days)	130 mg/kg bodyweight Animal: rabbit
STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure.

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Safety Data Sheet

According to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012 and the Hazardous Products Regulations (HPR) WHMIS 2015

Diethylenetriamine-bisphenol A-epichlorohydrin polymer (31326-29-1)		
NOAEL (oral, rat, 90 days)	60 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 422 (Combined Repeated	
	Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)	
Diethylenetriamine (111-40-0)		
LOAEL (oral, rat, 90 days)	530 – 620 mg/kg bodyweight Animal: rat, Guideline: other:	
NOAEL (oral, rat, 90 days)	70 – 80 mg/kg bodyweight Animal: rat, Guideline: other:	
Aspiration hazard	: Not classified.	
Symptoms/effects after inhalation	: May cause respiratory tract irritation.	
Symptoms/effects after skin contact	: Causes severe burns. Symptoms may include redness, pain, blisters. May cause an allergic skin reaction.	
Symptoms/effects after eye contact	: Causes serious eye damage. Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva.	
Symptoms/effects after ingestion	: May be harmful if swallowed. May cause burns or irritation of the linings of the mouth, throat, and gastrointestinal tract. May cause stomach distress, nausea or vomiting.	
Chronic symptoms	: Suspected of causing genetic defects. May cause damage to organs through prolonged or repeated exposure.	
Other information	: Likely routes of exposure: ingestion, inhalation, skin and eye.	

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : Harmful to aquatic life with long lasting effects.

Poly[oxy(methyl-1,2-ethanediyl)], .alpha(2-aminomethylethyl)omega(2-aminomethylethoxy)- (9046-10-0)		
EC50 - Crustacea [1]	80 mg/l Test organisms (species): Daphnia magna	
NOEC (chronic)	7.64 mg/l Test organisms (species):	
Benzyl alcohol (100-51-6)		
LC50 - Fish [1]	460 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])	
EC50 - Crustacea [1]	23 mg/l (Exposure time: 48 h - Species: water flea)	
LC50 - Fish [2]	10 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static])	
NOEC chronic fish	48897 mg/l Test organisms (species): other: Duration: '30 d'	
Triethylenetetramine (112-24-3)		
LC50 - Fish [1]	570 mg/l (Exposure time: 96 h - Species: Poecilia reticulata [semi-static])	
EC50 - Crustacea [1]	31.1 mg/l (Exposure time: 48 h - Species: Daphnia magna)	
LC50 - Fish [2]	495 mg/l (Exposure time: 96 h - Species: Pimephales promelas)	
Phenol (108-95-2)		
LC50 - Fish [1]	11.9 – 50.5 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])	
EC50 - Crustacea [1]	4.24 – 10.7 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])	
LC50 - Fish [2]	20.5 – 25.6 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])	
EC50 - Crustacea [2]	10.2 – 15.5 mg/l (Exposure time: 48 h - Species: Daphnia magna)	
NOEC (chronic)	0.16 mg/l Test organisms (species): Daphnia magna Duration: '16 d'	
NOEC chronic fish	0.077 mg/l Test organisms (species): other: Duration: '60 d'	
1,3-Benzenedimethanamine (1477-55-0)		
LC50 - Fish [1]	87.6 mg/l (Exposure time: 96 h - Species: Oryzias latipes [semi-static])	
EC50 - Crustacea [1]	15.2 mg/l Test organisms (species): Daphnia magna	
LOEC (chronic)	15 mg/l Test organisms (species): Daphnia magna Duration: '21 d'	
NOEC (chronic)	4.7 mg/l Test organisms (species): Daphnia magna Duration: '21 d'	
Diethylenetriamine-bisphenol A-epichlorohy		
LC50 - Fish [1]	> 47 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri)	
Diethylenetriamine (111-40-0)		
LC50 - Fish [1]	248 mg/l (Exposure time: 96 h - Species: Poecilia reticulata [static])	
EC50 - Crustacea [1]	16 mg/l (Exposure time: 48 h - Species: Daphnia magna)	
LC50 - Fish [2]	1014 mg/l (Exposure time: 96 h - Species: Poecilia reticulata [semi-static])	
EC50 - Crustacea [2]	16 mg/l Test organisms (species): Daphnia magna	

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LOEC (chronic)	11.3 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
NOEC (chronic)	5.6 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
NOEC chronic fish	> 10 mg/l Test organisms (species): Gasterosteus aculeatus Duration: '28 d'

Ingredient	CAS#	Ecotoxicity
2-Propenenitrile, polymer with 1,3-butadiene, 1-cyano-		No data available
1-methyl-4-oxo-4-[[2-(1-piperazinyl)ethyl]amino]butyl-		
terminated	68683-29-4	
Poly[oxy(methyl-1,2-ethanediyl)], .alpha(2-		Acute Aquatic Cat. 3; Chronic Aquatic Cat. 2
aminomethylethyl)omega(2-aminomethylethoxy)-	9046-10-0	
Benzyl alcohol	100-51-6	No data available
Non-hazardous	NA	No data available
Formaldehyde, polymer with N,N'-bis(2-aminoethyl)-	32610-77-8	Aquatic Chronic Cat. 3
1,2-ethanediamine and phenol		
Triethylenetetramine	112-24-3	Aquatic Chronic Cat. 3
Phenol, 2,4,6-tris[(dimethylamino)methyl]-, reaction		(Reference Triethylenetetramine); Aquatic Chronic Cat. 3
products with triethylenetetramine	1101788-77-5	
Silica, amorphous, fumed, crystalline-free	112945-52-5	No data available
Phenol	108-95-2	Aquatic Acute Cat. 3; Aquatic Chronic Cat. 2
1,3-Benzenedimethanamine	1477-55-0	Acute Aquatic Cat. 3; Chronic Aquatic Cat. 3
Diethylenetriamine-bisphenol A-epichlorohydrin	31326-29-1	
polymer		No data available
Diethylenetriamine	111-40-0	No data available

12.2. Persistence and degradability

WEST SYSTEM® SIX10® Part B Hardener	
Persistence and degradability	Not established.

12.3. Bioaccumulative potential

WEST SYSTEM® SIX10® Part B Hardener			
Bioaccumulative potential	Not established.		
Benzyl alcohol (100-51-6)			
Partition coefficient n-octanol/water	1.1		
Triethylenetetramine (112-24-3)	Triethylenetetramine (112-24-3)		
BCF - Fish [1]	(no bioaccumulation expected)		
Partition coefficient n-octanol/water	-1.4		
Phenol (108-95-2)			
BCF - Fish [1]	(no significant bioaccumulation)		
Partition coefficient n-octanol/water	1.5		
Diethylenetriamine (111-40-0)			
BCF - Fish [1]	0.3 – 1.7		
Partition coefficient n-octanol/water	-1.3		

12.4. Mobility in soil

WEST SYSTEM® SIX10® Part B Hardener	
Ecology - soil	No additional information available.

12.5. Other adverse effects

Other information : Avoid release to the environment.

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Safety Data Sheet

According to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012 and the Hazardous Products Regulations (HPR) WHMIS 2015

SECTION 13: Disposal considerations

13.1. Disposal methods

Product/Packaging disposal recommendations

: Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

SECTION 14: Transport information

In accordance with DOT / TDG / IMDG / IATA

14.1. UN number

UN-No. (IMDG) : UN3259 UN-No. (IMTA) : 3259 UN-No. (IATA) : 3259

14.2. UN proper shipping name

Proper Shipping Name (DOT/TDG) : Polyamines, solid, corrosive n.o.s. (Polyoxypropylenediamine)

Proper Shipping Name (IMDG) : POLYAMINES, SOLID, CORROSIVE, N.O.S. (Polyoxypropylenediamine)

Proper Shipping Name (IATA) : Polyamines, solid, corrosive, n.o.s. (Polyoxypropylenediamine)

14.3. Transport hazard class(es)

Department of Transportation (DOT) and Transportation of Dangerous Goods (TDG)

Class (DOT/TDG) : 8 Hazard labels (DOT/TDG) : 8



IMDG

Transport hazard class(es) (IMDG) : 8
Danger labels (IMDG) : 8



IATA

Transport hazard class(es) (IATA) : 8
Danger labels (IATA) : 8



14.4. Packing group

Packing group (DOT/TDG) III
Packing group (IMDG) : III
Packing group (IATA) : III

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Safety Data Sheet

According to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012 and the Hazardous Products Regulations (HPR) WHMIS 2015

14.5. Environmental hazards

Marine Pollutant : No

Other information : No supplementary information available.

14.6. Special precautions for user

Special transport precautions : Do not handle until all safety precautions have been read and understood.

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15: Regulatory information

15.1. US Federal regulations

All components of this product are present and listed as Active on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory.

All components of this product are listed, or excluded from listing, on the Canadian DSL (Domestic Substances List) inventory.

Phenol, 2,4,6-tris[(dimethylamino)methyl]-, reaction products with triethylenetetramine (1101788-77-5)

Listed on the Canadian NDSL (Non-Domestic Substances List)

15.2. International regulations

No additional information available

15.3. US State regulations

⚠ WARNING:

This product can expose you to Propylene oxide, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

Propylene oxide (75-56-9)				
U.S California - Proposition 65 - Carcinogens List	U.S California - Proposition 65 - Developmental Toxicity	U.S California - Proposition 65 - Reproductive Toxicity - Female	U.S California - Proposition 65 - Reproductive Toxicity - Male	No significant risk level (NSRL)
Yes	No	No	No	

Benzyl alcohol (100-51-6)

- U.S. Pennsylvania RTK (Right to Know) List
- U.S. Massachusetts Right To Know List

Triethylenetetramine (112-24-3)

- U.S. New Jersey Right to Know Hazardous Substance List
- U.S. Pennsylvania RTK (Right to Know) List
- U.S. Massachusetts Right To Know List

Phenol (108-95-2)

- U.S. New Jersey Right to Know Hazardous Substance List
- U.S. Pennsylvania RTK (Right to Know) List
- U.S. Massachusetts Right To Know List
- U.S. Pennsylvania RTK (Right to Know) Environmental Hazard List

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Safety Data Sheet

According to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012 and the Hazardous Products Regulations (HPR) WHMIS 2015

1,3-Benzenedimethanamine (1477-55-0)

- U.S. New Jersey Right to Know Hazardous Substance List
- U.S. Pennsylvania RTK (Right to Know) List
- U.S. Massachusetts Right To Know List

Diethylenetriamine (111-40-0)

- U.S. New Jersey Right to Know Hazardous Substance List
- U.S. Pennsylvania RTK (Right to Know) List
- U.S. Massachusetts Right To Know List

Propylene oxide (75-56-9)

- U.S. New Jersey Right to Know Hazardous Substance List
- U.S. Pennsylvania RTK (Right to Know) List
- U.S. Massachusetts Right To Know List
- U.S. Pennsylvania RTK (Right to Know) Special Hazardous Substances
- U.S. Pennsylvania RTK (Right to Know) Environmental Hazard List

SECTION 16: Other information

According to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012 and the Hazardous Products Regulations (HPR) WHMIS 2015

Revision date : 01/03/2022 Other information : None.

Prepared by : Nexreg Compliance Inc.

www.Nexreg.com



Full text of H-statements		
Aquatic Acute 3	Hazardous to the aquatic environment — Acute Hazard, Category 3	
Aquatic Chronic 3	Hazardous to the aquatic environment — Chronic Hazard, Category 3	
Eye Dam. 1	Serious eye damage/eye irritation, Category 1	
Muta. 2	Germ cell mutagenicity, Category 2	
Skin Corr. 1B	Skin corrosion/irritation, Category 1B	
Skin Sens. 1	Skin sensitisation, Category 1	
STOT RE 2	Specific target organ toxicity — Repeated exposure, Category 2	

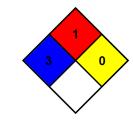
NFPA nealth nazard	: 3 - Materials that, under emergency conditions, can cause serious or

permanent injury.

NFPA fire hazard 1 - Materials that must be preheated before ignition can occur.

NFPA reactivity : 0 - Material that in themselves are normally stable, even under fire

conditions.



Hazard Rating

Health : 3 Serious Hazard - Major injury likely unless prompt action is taken and medical treatment is

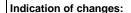
given

Flammability : 1 Slight Hazard - Materials that must be preheated before ignition will occur. Includes liquids,

solids and semi solids having a flash point above 200 F. (Class IIIB)

Physical : 0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NOT

react with water, polymerize, decompose, condense, or self-react. Non-Explosives.



SDS update.

01/03/2022 14/15 EN (English)

Safety Data Sheet

According to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012 and the Hazardous Products Regulations (HPR) WHMIS 2015

SDS HazCom 2012 - WHMIS 2015 (Nexreg) 2021 (B&W)

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